New York, NY

Education

• Wesleyan University, Middletown, CT.

May 2021

- BA, Double Major: Computer Science and Mathematics, GPA 3.93/4.00.

Research

• Denotational Recurrence Extraction for Amortized Analysis, Joseph W. Cutler, Daniel R. Licata, and Norman Danner. Proceedings of the ACM SIGPLAN International Conference on Functional Programming, 2020.

Work Experience

- Research Intern, Max Planck Institute for Software Systems (virtual) Summer 2020 Designed and implemented a bidirectional calculus for λ -amor, a highly expressive refinement type system for amortized cost analysis.
- University Research Fellow, Wesleyan University

 Did research in cost semantics, working to extend prior work on automated recurrence extraction to deal with amortized analysis. Resulted in a paper published at ICFP '20.
- Student Forum Leader, Wesleyan University

 Lectured on Haskell, alongside a grad student who had designed the course.

 Spring 2018
- Course Assistant, Wesleyan University Spring 2018 Current Graded assignments, led TA sessions, and aided with labs for the following classes:
 - COMP 360 Applied Logic & Logic Programming (Fall 2020)
 - COMP 323 Programming Language Implementation (Spring 2020)
 - COMP 212 Computer Science II. (S/F 2018, S 2019, S/F 2020)
 - COMP 112 Introduction To Programming. (Summer 2018)
 - MATH 261 Abstract Algebra (Fall 2020)
 - MATH 223 Linear Algebra. (Fall 2019)
 - WesMASS COMP 211 Mini-Course Computer Science I. (Summer 2018)
- Teaching Assistant, Upperline School of Code, NYC

August 2017

- Software Development Intern, Flatiron School, New York, NY: Summer 2016/17, Winter 2018 Worked on Flatiron School's online learning platform, Learn.co.
- Teaching Assistant, Flatiron School, New York, NY

Fall 2014 - Summer 2015

Awards

- Shortt Prize, Awarded to a junior for excellence in mathematics. (2020)
- Robertson Prize, Awarded to a sophomore for excellence in mathematics. (2019)
- PLMW @ ICFP Funding (2020)

• Cornell, Maryland, and Max Planck Pre-Doctoral Research School (CMMRS) Travel Award (2019)

Attended

- *ICFP 2020*, Virtual (August 2020)
- PLDI 2020, Virtual (June 2020)
- *POPL 2020*, New Orleans, Louisiana (January 2020) with funding from Profs. Licata and Danner
- Cornell, Maryland, Max Planck Pre-doctoral Research School, Saarbrücken, Germany (August 2019)
- Oregon Programming Languages Summer School, Eugene, OR (June 2019) with funding from Prof. Licata

Service

- Volunteer, #ShutdownPL ICFP (2020)
- Computer Science Club Steering Committee, Wesleyan University (2019-2021)
 Planned, organized, and hosted events for the computer science community at Wesleyan

Skills

- Programming: Functional programming (Standard ML, Haskell), web development (Ruby, Rails, JavaScript, Frontend MVC Frameworks), LATEX, Lower level languages (C, C++).
- Other: Unix, Git, and Vim. Beginner knowledge of hobby electronics and Arduino. Conversant in data science methods familiar with R and related tools.